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PATENT TRADEMARK OFFICE

# **UTILITY APPLICATION**

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**OF**

**JAMES P. BRADY**

**FOR**

**UNITED STATES PATENT**

**ON**

**FOLDABLE SPEAKER RACK FOR USE  
WITH SPA**

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# **FOLDABLE SPEAKER RACK FOR USE WITH SPA**

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This application is a continuation of U.S. Application Serial No. 10/126,130, filed  
5 April 19, 2002, which is a continuation-in-part of U.S. Application Serial No. 09/912,815,  
filed July 24, 2001.

## **BACKGROUND OF THE INVENTION**

### **Field of the Invention**

This invention relates generally to speaker assemblies and, more specifically, to speaker  
racks that are foldable for use with spas.

### **Description of the Related Art**

15 Combining audio entertainment with whirlpool bathtubs or spas is known in the art.  
Also, the dangers involved in having electrical equipment near water are well known. For  
many individuals that have separate spas, who desire to have audio entertainment while  
relaxing in these spas, a solution lies in the transport of a portable stereo system. Problems  
arise with this scenario, such as the proximity of electrical equipment to an amount of water in  
20 which a user remains and proximity to an electrical source for such equipment. Also, for those  
who might use battery power for such electrical equipment, the length of time that power will  
last, as well as the increasing cost or inconvenience to consistently replace or recharge said  
battery power, can be a substantial issue. Yet another issue involved is the storing of the

electrical equipment which will require some further transportation of this electrical equipment, possibly while the user is still damp from the spa water.

In existing embodiments of spa entertainment, holes are cut into the spa shell and the speakers and audio equipment are placed within. Problems arise with the manufacturer because there is a need to retool the mold in order to make room for the speakers and other audio equipment which in turn creates additional problems such as increased manufacturing costs. Shipping these spa shells also becomes a problem because of the odd shapes created in the spa shell itself. Also, retooling the mold creates inefficiencies for the spa manufacturers by destroying the consistency of the spa shell shape. Not only will buyers will be limited in the selection of these newly molded shells, but problems in the aftermarket will be created.

Mountable speaker systems and mounting brackets for speakers are well known in the art. Speaker assemblies are available that correspond to solving specific problems or have special features such as speaker devices for the hearing impaired and surround sound speaker systems. These speaker systems, however, do not allow for easy storage or have the ability to be used in conjunction with a variety of different spas.

Therefore, what is needed in the art is a speaker rack that eliminates all the inconveniences of special mold manufacturing, eliminates unnecessary additional costs for the spa manufacturer, is easily adjustable, allows for all of the audio equipment to be housed outside of the spa environment, has simple storage means, and can be used in conjunction with a variety of spas, regardless of size or shape.

## **SUMMARY OF THE INVENTION**

The present invention includes a first transverse member and a second support member that further includes oppositely opposed first and second generally extending members. The first transverse member couples to and extends between the oppositely opposed generally  
5 extending members of the second support member, and one or more positioning members couple to the second support member allowing for securing the members into an extreme upward, an extreme downward, and positions in between. The one or more positioning members, which can be multi-position detents, either attach to the spa itself, to attachment means on the spa, or to an independent standing means. The oppositely opposed generally  
10 extending members have speaker attachment means allowing for speakers to be swivel and pivot mounted. The first transverse member allows for towels, clothing, or the like to be hung while using the spa, and both the first transverse member and second support member may allow for telescopic movement so that adjustments can be made to the spacing between the speakers allowing for use with different sized and shaped spas. The first transverse member,  
15 second support member, and oppositely opposed first and second generally extending members include apertures allowing speaker wire to run through and connect to an input or output device. The present invention may include a housing unit and a table element. The table element, which may include engagement means for easy maneuverability, connects to the first transverse member while the housing unit connects to the spa and can surround the second  
20 support member. The housing unit includes apertures allowing the speakers to rest inside while in the extreme downward position.

## **OBJECTS OF THE INVENTION**

It is an object of the present invention to provide an easily adjustable and easily storable speaker rack for use with spas or the like.

It is a further object of the present invention to provide a location near the spa for the  
5 placement of beverages, hanging of towels and clothing, or the like.

It is a further object of the present invention to provide both an easily adjustable and easily storable speaker rack for use with spas and to provide a location near the spa for the placement of beverages, hanging of towels and clothing or the like.

These and other objects and advantages of the present invention will be apparent from a  
10 review of the following specification and accompanying drawings.

## **BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 is a rear perspective view of the present invention shown in its extreme upward position while attached to a spa.

15 Figure 2 is a rear perspective view of the present invention shown in its extreme downward position while attached to a spa.

Figure 3 is a rear perspective view of another embodiment of the present invention shown in its extreme upward position while attached to a spa.

Figure 4 is a front perspective view of another embodiment of the present invention  
20 shown in its extreme upward position while attached to a spa

Figure 5 is a rear view of the embodiment of the present invention as shown in Figure 4 shown in its extreme downward position while attached to a spa.

Figure 6 is a rear perspective view of yet another embodiment of the present invention.

Figure 7 is a rear perspective view of yet another embodiment of the present invention, shown in an extreme upward position.

Figure 8 is a view similar to Figure 7 shown in an extreme downward position.

Figure 9 is a front perspective view of the embodiment of Figure 7.

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## **DESCRIPTION OF THE PREFERRED EMBODIMENT(S)**

The detailed description set forth below in connection with the appended drawings is intended as a description of presently-preferred embodiments of the invention and is not  
10 intended to represent the only forms in which the present invention may be constructed and/or utilized. The description sets forth the functions and the sequence of steps for constructing and operating the invention in connection with the illustrated embodiments. However, it is to be understood that the same or equivalent functions and sequences may be accomplished by different embodiments that are also intended to be encompassed within the spirit and scope of  
15 the invention.

Figure 1 shows a spa 2 comprising the present invention in its extreme upward position or operational position. The present invention can attach to the any face 4 of the spa 2 by way of spa attachment means or one or more positioning members or multi-position detents 6 that can be securely attachable to the spa or to spa attachment means. The two multi-position  
20 detents 6 allow the present invention to be secured in up, down or any position in between. A transverse member 12 or assembly element, adaptable to a spa 2 for association thereto, having a diverging end 10 from its axis and a second opposite diverging end 11 can be movably held in either an upright or folded position. The diverging ends 10, 11 or oppositely and opposing

first and second generally extending members, are adaptable for association with speakers. A support member 8 used for allowing a convenient location for hanging towels, clothing and the like, securely attaches to and extends between the diverging ends 10, 11 of the transverse member 12. In the present invention, the diverging ends 10, 11 curve in an upward direction, although this is not required. A user pulling on the support member 8 can easily adjust and secure the present invention into many different positions in between the extreme upward and downward position, by the two multi-position detents 6. The transverse member 12 pivotally couples to the multi-position detents 6, which can attach to the spa 2, to attachment means on the spa 2 or to an independent standing means (not shown) not attached to the spa 2.

The diverging ends 10, 11 of the transverse member 12 include speaker attachment means 18. The speaker attachment means 18 on the diverging ends 10, 11 may have swivel and pivot capabilities. The first and second speakers 14 shown in Figure 1 are rectangular, however, any size or shaped speakers 14 may be used in conjunction with the present invention. These first and second speakers 14 can couple to the speaker attachment means 18 such that the speakers 14 have the ability to swivel and pivot. Inside the transverse member 12 there exists space allowing speaker wiring (not shown) to pass through and the transverse member 12 may contain an aperture 16 allowing speaker wiring to exit the transverse member 12 and connect to input or output devices (not shown). Although not necessary, it is preferable to run speaker wiring in a zigzag pattern to avoid any pulling on the first and second speakers 14 when the present invention is moved into different positions.

The support member 8 and transverse member 12 may have the ability to extend. In this instance, the support member 8 and transverse member 12 can telescopically extend,

thereby allowing the distance between the first and second speakers **14** to be adjustable. In this embodiment, the support member **8** and transverse member **12** may comprise metal tubing, aluminum tubing, PVC tubing, or various other materials with similar properties may be used.

Figure 2 shows the present invention in the extreme downward position or retracted position. Besides the extreme upward and extreme downward position, the multi-position detents **6** can also allow the present invention to be positioned into many secure positions in between. When the present invention is in the extreme downward position, the first and second speakers **14** are allowed to project in a generally opposite direction from its operational position, allowing for audio entertainment to be heard outside of the spa **2** such as when a user is not located in the spa **2** but in the surrounding area.

Figure 3 represents another embodiment of the present invention in the extreme upward position. In this embodiment, a housing unit **20** having apertures **22** couples to the spa **28** and surrounds the transverse member (not shown) and multi-position detents (not shown) allowing the first and second speakers **24** and support member **25** to fit inside the apertures **22** of the housing unit **20** when in the extreme downward position. In the extreme upward position, the first and second speakers **24** face in a direction toward the inside of the spa **28** but can be swivel and pivot mounted on the oppositely opposing first and second generally extending members **26** allowing for the first and second speakers **14** to be in many positions in relation to the inside of the spa **28**. When in the extreme downward position, the first and second speakers **24** rest inside the corresponding apertures **22** and can face outward allowing for audio entertainment in the area surrounding the spa **28**. Also, in the extreme upward position, the support member **25** can be used as a rack for towels, clothing or the like. Other apertures (not



shown) can exist in the housing unit **20** to provide space for a radio, receiver and/or inverter, keeping the audio system outside of the spa environment. The housing unit **20** can be comprised of a molded plastic, foam, or other similar materials.

In Figures 4 and 5 yet another embodiment of the present invention is shown. Figure 4 shows the embodiment in the extreme upward position and Figure 5 in the extreme downward position. A table element **30** couples to the support member **32** and in an extreme upward position, drinks and the like can be placed on the table element **30** while the individuals are inside or outside of the spa **34**. The table element **30** may contain an engagement member **36** allowing a user a simpler method to move the present invention into different positions. Also, the table element **30** may be securely attached to the support member **32** or may have swiveling capabilities allowing the table element **30** to be moved from the inside to the outside of the spa **34** while in the extreme upward position. In the downward position, the table element **30** folds neatly against the housing unit **37**.

Figure 6 represents yet another embodiment of the present invention. In this embodiment, a support structure **41** having a base **42** and at least one extending portion or a generally extending member **40** having an end adaptable to receive a speaker **48**. A support member **38** couples to the generally extending member **40** of the support structure **41**. The base **42** can be pivotally coupled to one or more multi-position detents **44** which can be coupled to the spa **46** itself, to spa attachment means **45**, or to an independent standing means (not shown). The support member **38** can be used as a towel rack or the like as well as a handle for a user to position the present invention in the extreme upward, extreme downward or positions in between. This embodiment can allow for a plurality of these embodiments

coupled to the spa 46, allowing one to be in an extreme upward position 43 or erected position for best audio sound to a user in the spa 46, while another is in the extreme downward position 47 or folded position for best audio sound for a user outside the spa 46. The base 42 can be mounted as shown in Figure 6 but can also be mounted such that the base 42 and generally  
5 extending member 40 form a reverse "L" position so that the speaker 48 rests on the other side of the multi-position detents 44. The present embodiment is preferable when there are some guests using the spa 46 as well as other guests not using the spa, but located in the surrounding area.

Figures 7 - 9 illustrate another embodiment of the present invention wherein a speaker  
10 50 is capable of swiveling or a 360 degree rotational movement on the support structure 52, when the speaker is in an upward position as shown in Figures 7 and 9. Thus, the speaker can be rotated to face towards the inside or outside of the spa 54, as shown in Figures 9 and 7, respectively, or any other direction as desired by the user. The support structure 52 has a base 56 similar to the base 42 and an extending member 58. The extending member 58 has a first  
15 portion 62 extending upwards from the base 56, a second portion 64 extending sideways from the first portion 62, and a third portion 66 extending downwards from the second portion 64, when the speaker is in its upright position. The speaker includes a hollow portion extending from a top side 60 to a bottom side 61 of its mounting, through which the third portion 66 of the extending member 58 is inserted. Thus, the third portion 66 forms a pole on which the  
20 speaker rotationally hangs. Additionally, while the second portion 64 is illustrated as extending towards the left-hand side (in Figures 7 and 8) it may, of course, extend to the right-hand side

as well. Other methods of providing a speaker capable of rotational movement (which may be less than 360 degrees) on the support structure **52** will be apparent to one skilled in the art.

The base **56** can be pivotally coupled to the spa via one or more multi-position detents **68** which are shown in Figures 7 - 9 as directly coupled beneath the rim **70** of the spa **54**. The  
5 detents can alternatively be directly coupled to the body of the spa, to an attachment on the spa, or to an independent standing means. Thus, the speaker **50** can be positioned in the extreme upward position as shown in Figures 7 and 9, in the extreme downward position as shown in Figure 8, or positions in between. Many methods of coupling the base to the spa **54** will be apparent to one skilled in the art. Additionally, the base and/or second portion **64** of  
10 the extending member **58** could be used as towel racks or the like.

While the present invention has been described with regards to particular embodiments, it is recognized that additional variations of the present invention may be devised without departing from the inventive concept.